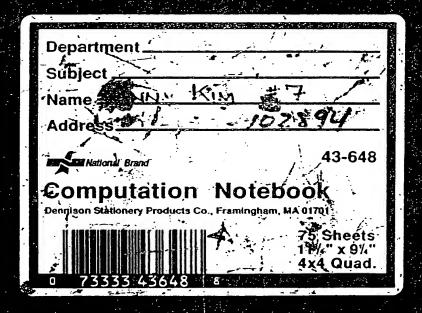


Ruben EXHIBIT #90



Ruben EXHIBIT 2090 Ruben v. Wiley et al. Interference No. 105,077 RX 2090

DO TINT ON THE GIVE TO SO		
DHEGHET 2505 0.25 m/ 0    Company   Company		TNT-HEGHF73/HTPAN/HTACISC/HPDOGU9333
DHEGHET 2505 0.25 m/ 0    Company   Company		DO THE MO
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Robot Lepate 25 25 25 25 25 25 25 25 25 25 25 25 25		
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Baut 95% 2 min  Chill mice  Quick Spir.  Plant 10 sel or 12 5 10 505 bel  With Rounday Marke CH  Amperty 30 min 37°C.  Pry out 70°C 2112 ms.		50 50 50 50
Fix Gel 20% nutrand 10% Actic Aus  Charley 30 min at 37°C.  Dry od 70°C a 1/2 ms.		Jul of TNT + 20ml 1x DS Buffer Chill on me
Bry of 70°C a 1/2 ms		
	4	Amply 30 mi 370

	TNT- HEGUF73/HTDAN/HTACISO/HPOOGUG833
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	with Roman marker CH
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G ma	I Amplify 30 min Rive
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## TNT- HEGUF73/HTPAN/HTACISC/HPDOGUS

8125194

E. the and

DI THT on

(D) HEAMF73507

THOUGH A HERMING SOY

HOLD HADDY 93

HATTCL SC

0.25 mg/me 0.25 mg/me 0.25 mg/me 0.15 mg/me

Robot Lipate.

But to 13

Pol T3

AA. mix @ met

So much.

Ron asin

DNA

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elnoubate 30°C 11/2 hrs.

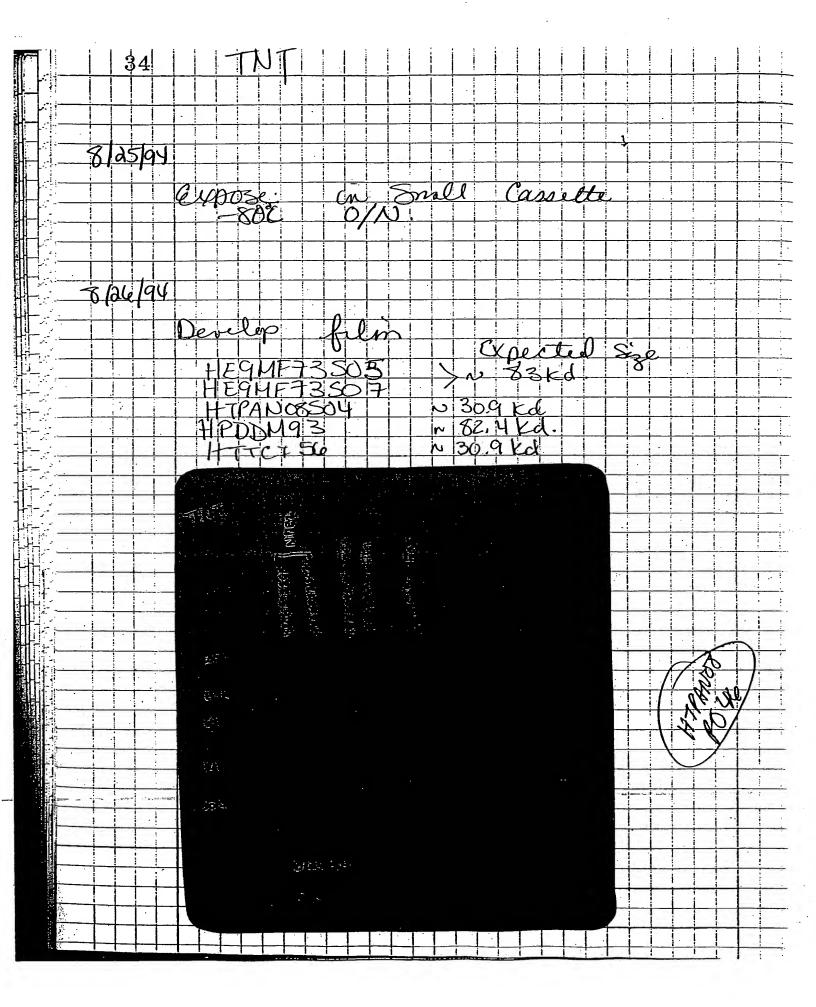
Eco /BaUII

Sul of TNT + 20ml 1x 505 Buffer.
Child on he
Quion Spin
Kim 10 ml 12 572 505 160

(dr. by)

FIX bel 20% methand 10% Acitic Soul Amplify 30 min 37°C

y gel 70°C 1/2 ms

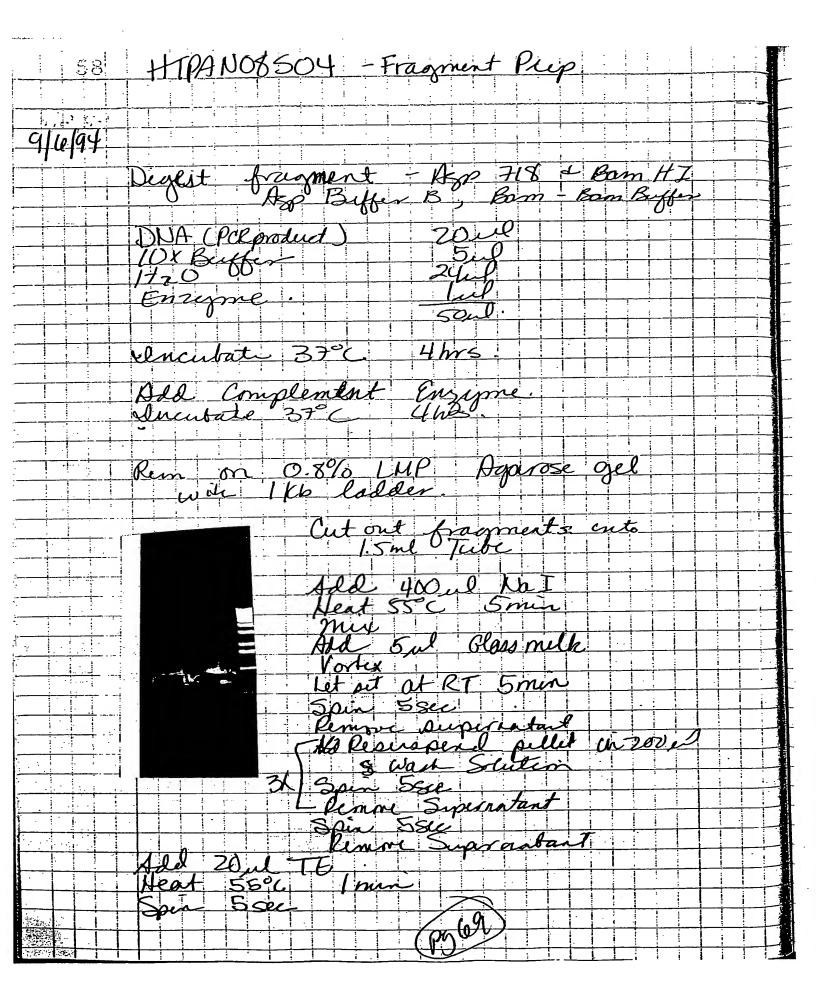


Mini Preps / Mari Prep 37-
8/18/94
Sequence Falen.
HTTCISCOB  HTTPBYIIC  HUNADIBC 2000 COT  HUNADIBC TOTAMO
HUSBZU3A HOSDK13A
3/19/94
Spin Cella 4K Domin Besonone Duperneutant
Lesuspend pelit 10 ml Pl.  Add 10 ml P2 mis  And 10 ml Chilled P3  Mry and wenter 20 min on ce
Spolis Supernational Supernational August Supernational Su
Alexand Pale

( fragnest pup preces! HeroTyr 8/31/94 supernatant to romoser Tkb Codder. 1 Wrong lostro orone HPRCCAI AdB Boilins 0 alucubate 3700 1150 50 N Digst HTPANOSSOY (Fas legonal DNA Colduglal DX#7 Eco es Sucubate 370 xho J HZQ! Continue

46 Fragment pup HIPANOSSOY / HPRCCA 8/31/94 (HIPANOS 8534) digist on gel not look like Ourtinue to digst 9/194 Check Digitato on 1% get with 1 Kb ladder. HTDANOS SOLF looks like it is almost fully Digesto. HPECC91 does not look degested Clean up DNA and try ages 2x phenol extract w/egyd Volume 24 Chloroform actract w/ egyd Volume Elnanol / 3M Na Actate precipotat DNA 1X70% Ethand wash upend in 50ml TE Set up Digist DNA Moutate at 372 H20 Ecofi

	HTPAN08SO4 - Protein - fragment Pup. 157
	9/2/94
	DCP_
	PCR- HTPANOSSOY Instal
	+640 3 Asp 718 03 36
	10x PCR 3.5 42 61001
ruis i	10 × dNTP 35 42 Should
	0.2 2.4 set a
	DNA 20.2 314 fragment
	35 L 420 N 850 bp.
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	PCR program # 69
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	95°C 20 sec 7
	55°C 20 sec 30x
	72°( 1min )
	4°C Hold
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	Let out on co. 10 a
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	Add Int 70% Estand
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	Selow Dellet of dis
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	- State - 10 G
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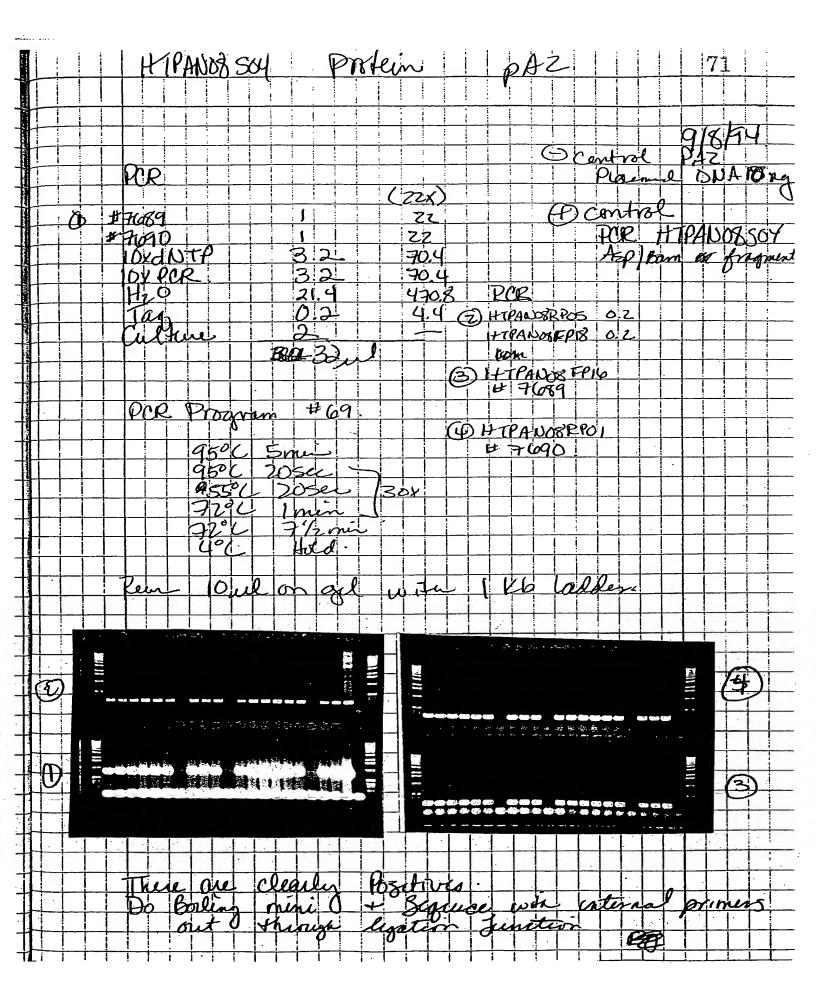


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- H1	4) PANCESOU B/A 3. PAZ B/A			t
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70 MIPANOSSON Prodein. 082
917194
Than DH5d Chemically Compilent Cells
Seguet 100 ul of Cells onte fresh tutes
Segret 100 ul of Cells onto fresh Lutes Ald Wil of Rigation Ryn.  Mus sently  Oncubate on we Ihr.  Heat 42°C 455ec
place on cel
Pate onto 18 + Amp Plates.
(1) HTPANOSSO4 Asp/Barn + pAZ Asp/Barn -50 +200 ul (2) HTPANOSSO4 Asp/Barn + pAZ Barn/Asp -50 +200 ul (3) HTPANOSSO4 Asp/Barn + pAZ Barn/Asp -50 +200 ul
(2) HTPANOSSOY Barm / Asp / DOZ Asp/Barm - 100 w/ (4) HTPANOSSOY Barm / Asp + DAZ Barm / Asp - 100 w/ (5) HTPANOSSOY Asp / Barm - 200 w/ (6) HTPANOSSOY Barm / Asp - 200 w/
- 60 pA2 Asp/Ram - 200 f
Bras Bam 1858 200 1 200
- Incubote 37°C. O/N
<u> 9 8 94</u>
Insculate Colonies into 1 Pt Amp in The well dien will acration chies
VCP TO Check Conserts



NAME OF TAXABLE PARTY.	
72 HTPANOSSOY into pAZ	131
	- 3
913/94	
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Delones - B+ Drup with all fac	
Incutate 37°C O/N w/aeration	
9919U	
919194	
Boiling mini preps	
Spin and of culture in and Tubes	
De Branche de la Companya del Companya de la Companya del Companya de la Companya	
Remove Dupernestand Remove Dupernestand	
Resuspend pellet en 450 ul of 5TET+ Rhase + Lypozine	
Sain 10 min	<u>-</u>
lemore pellet w/ toothpick Add 750 of 13% PEC-800/1641bell	
Yorkx will	
Spin 10 min	
Renive supernatant Add LOW ul 70/0 Ethanol	
mus	
Spin 5mi Remove superrulant	
Remove supernatant Allow Pellile to dey	
Rem Quelon of with 1 to Cadde	
and pAZ (250mg)	
801 > 800 17 Add 150 when TE	
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	HTPAN 28504 - pAZ Pooce. Vivus. 81
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	P372
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	Digit with Room (A50.
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	to confirm Cloning
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	BOY FPOT FAR
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	Klese, Glucoska Bol-BIZ-
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82	HTPANOSSOY-Boxe Virus	FAS	Maxi Prep
9/12/94		Amp	
	HIPANOS BOZ		
	Incubate 37°C 0/N W/	eration	
9 13 94			
	Spin Cells 450 rpm	15mil	
	Resuspen Quellet in Porth Lit Adel 10ml Pa	P3 me	
	let sit on ce 20 mm Spin 4500 pm 15 mm	- Jone	UB7
	Wash 30 nd QC Buffer	1. Kim con	pe
	Add isograpand. 0.7 Vol.	unes (	10. Inl
	Don of Auguretait Of Add 00/5 ml 70% Gtas Cado GV (SA Pa	tor Cl	ce
	Spr 13 min 10 of 1		

HTPANOSSOU-PAZ Nayi Prep 9 BAY upensteat sig at المراجعة 1.132 0.5772 1.18 0.0188 0.5772 1.18 مراجعة 0.0189 0.1309 0.0847 0.0170 1.6834 0.5940 1.34 Store 400 in Plasmed Box. Will need to do IP - Transfection O. Tulas Plasned

HEZOITE 97 They PCR ung the DM13R + FP10 3) RF01 + FP09 -3) M13R+ FP05 ~500 bp ~ 430 bp. 1040 bp m/32. FPID. Fect 1: IOX ACK 0.2 94 O1214 577.6 H20 Rescue 01.3 5751 Dontrol HEZOIYZ plania @ Control Azo Rem PCR prog #69

11 2001111515011-11111111111111111111111111
HIPBY 11515 & HTPANOS SOY -120 PDYO 1111
(25)
9/28/hg
Fragment prep for HTPBYIISON 3'10 15' Bum
HTPANOSSO 4 3'X12 /5 Rom
HTPBUISIS HTPANOSSOY
DVA DVA TITADO8309
10xdNTP 10 10xdPTP 10
TOXPER 10 IDXPCK 16
1 2000 250 1 0.3 2499 0.3
2502 0.3 2500 0.3
H20. 78.1 H20 78.1
HZO. 78.1 1001. HZO 78.1
1000
Do 10 Runs of each that I regatue control.
PCR Prog #69
95° 50 min
55°C 20sec 30y
72°C Imin.
72°L 71/2 min.
U°C hold.
Run 5ul on gil with 1 Kb ladder
-HTPANO8504 ~ 800 be
HTPBY11515 ~ 24006p
- PER precipitant spice Volume
Remore Augumatant
All I'ml 70% Glassol
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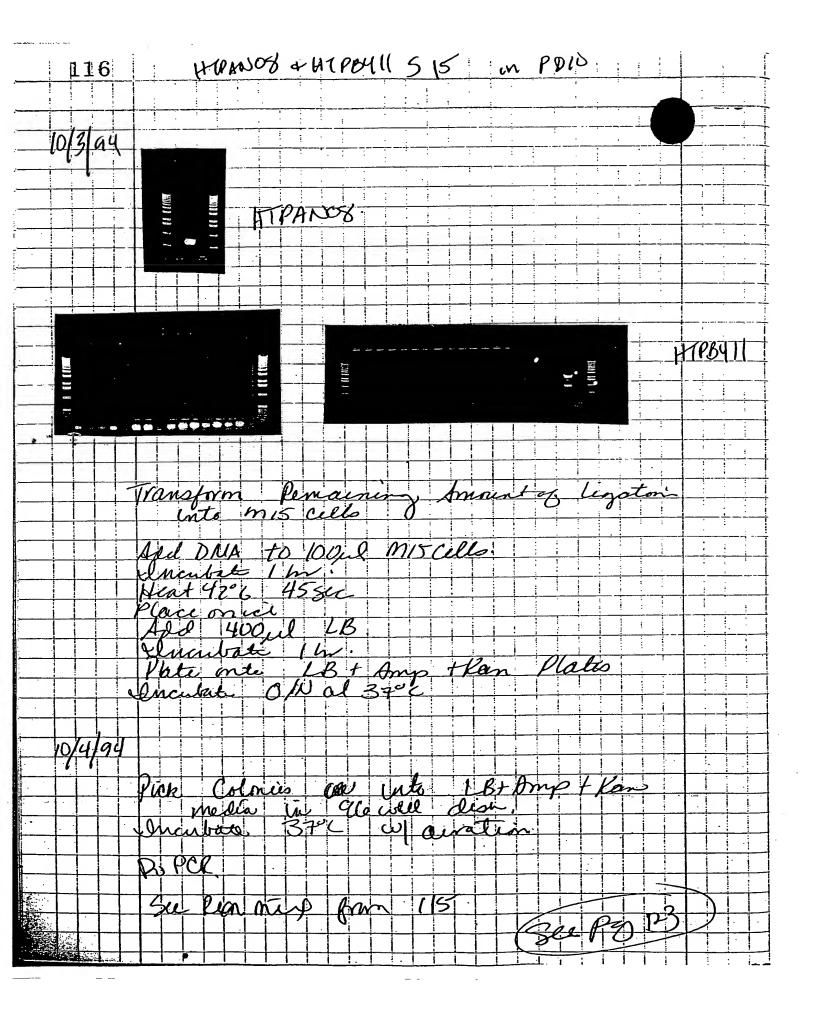
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112	HIPBYLLEGG & HTPANOBSOY in PDID
9/20/94	
	0 5/00/ 1/10-0
· · · · · · · · · · · · · · · · · · ·	Run o 0.80% LHP gel
	Cut out of gel
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	Add Int Na I
. <del> </del>	Add Inl NaI Heat 55°C 5 min
	Mark
	fld Ful Glass Mills
	The H
	let Dit at RT amen
	With occasional
	Spin 5 Sic
	Demone surdokatant
	William & Dellet in
	IN 400 Wash Biffy
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	Spin Soc
	Remore Duperautant
	Sdo Dout TE
	Nest 55°C d'mina
+	Spin See
	AAA 70 0 TE
	Nest 55° ( 2 min
	Spin 15sec
	Transfer to table
	- Rem Zil m gel with / Kb ladding
0/-01-1	
7/0444	Depot With Vhat Ban
	Pegyst O with Vont Ban
	MIA 200 O Comet with Rin
	11 WH 2 5
	HD 13 will all val
	Enzyme L X ba a digest o
	19 1 37°C for 4ms
	Dan hours
	atrice (12)

HIPBYUSIS+ HTPANOSSOY a jag ay Leve Clean spend pelled 400 ul Was Buffe pellet\_ 20 ul 1-0.9Kb 2-1.6kb:

114 HTPANOSSOY ANTPBYISIS IN PDIO		
9/30/94		
Set up lightions		
DHTRANOX504 0.9Kb Bern/Kton		
(2) HTPANOSSOY 1.666 Roam /Xlow		
(2) HTPANOSSOY 1.666 Roam /Xlow (3) HTPBY 11 S15 7.4 Kb Barn /Xb		
DNA Fragment + Victor.		
#2 (1) 41 + pD10 Bam/xbu Gill #2 (1) 41 + pD10 Xbu/Bam Zuf		
52 2 1/1 St Q 7/h 2 D		
the control of the Bon Zul		
#4 (2) Cul + pDIO X balkon Zul #5 (3) Yul + pDio Ban /xp Zul		
#5 (3) 41 + 0010 Ban 142 211 #6 (3) 40 + 0010 481/Ban 211.		
47 (1) Unl +	-	
#8 @ Oul +		
#9 (3) Yal +		
#10 - + pD10 Bam (xb2 + pD10 Xba   Ban		
#11 + pD10 Xbi Ban		
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	HJPANOS 304	HTPBY11.515
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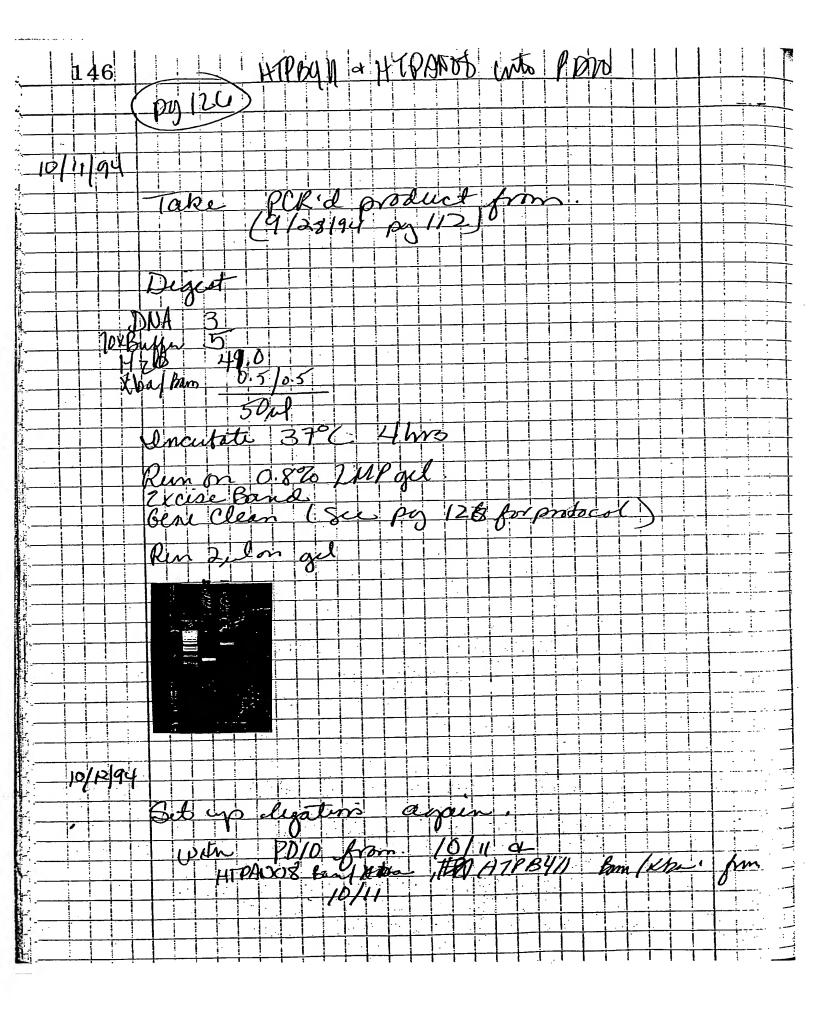
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le olt up disptions	1310	( ) = 1
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Mulaci		
U a p q q		
Transform (& MIS Cells		

HIMNOS+ FOHTPBY IN PDIO 10/7/94 Remake PD10 Vector. Remake chosent fragmen Digest PDIO HzD Born / Mos

126 melted Glass milk 5 min Pesusone pull Despernatant ne pellet 20ml Combine ents / freshtebe Make more

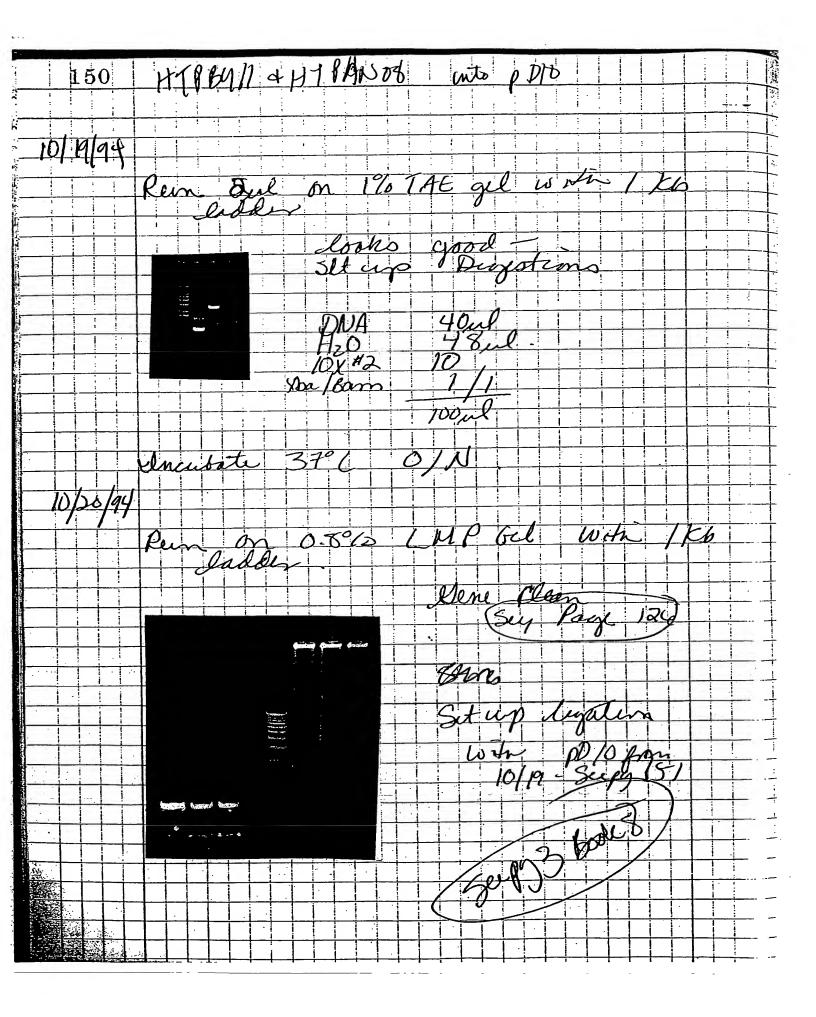
	Hreccal HPRDM93	137 -
		0/13/94
		7/3/79
	Develop film.	
	Puk D Clones into 500 ul Sm Buffor. Only HPPCC91 seemed to work-	
	115 B clones	
_	Try HPDDM Again See By 14D	<del></del>
	Toon John	
		_i
·· - · -	- ' <i>l</i>	18/94
	Do PCR on @ clones from 1° prage.	
	10x PCL 3.5 420	,
	10xaNTP 3.5 420 17	<u>-</u>
	(8235) FR3 2 240	
•	H20 20.7 2489	
	phan 5	
	35 Jul Jule	· ····
	Ren PCR Program # 69	· · · · · · · · · · · · · · · · · · ·
	95°C 5mm Be lee HPK	CE93
	95°C 205°C 30X plasmid 55°C 205°C 30X as \$65	WWA :
	12C min late the	4
	72°C 7/2 min O Contro	
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